CLAIMS

Having thus described the invention, we claim:

10

- 1. An apparatus for spraying powder coating material having a powder flow path, wherein said powder flow path has a charging surface for triboelectrically charging powder coating material which comes in contact with said charging surface, said charging surface comprising a negative tribocharging material selected from the group consisting of: polyamide resin blends, fiber reinforced polyamides, aminoplastic resins, acetal polymers combined with a fluorinated hydrocarbon resin and acetal copolymers combined with a fluorinated hydrocarbon resin, and mixtures thereof.
- 2. The spray apparatus of claim 1 further comprising one or more air passages formed through said charging surface, said air passages being in a fluid communication with a source of compressed air.
- The spray apparatus of claim 1 further comprising an electrical conductor provided adjacent said charging surface, said electrical conductor being connected to one of an electrical ground or a source of electrical potential.
- 4. The spray apparatus of claim 3 further comprising one or more air passages formed through said charging surface, said air passages being in a fluid communication with a source of compressed air.
 - 5. The apparatus of claim 1 wherein said negative tribocharging material comprises an acetal homopolymer with polytetrafluoroethylene fibers.
- 6. The apparatus of claim 1 wherein said negative tribocharging material comprises DELRIN AF.
 - 7. The apparatus of claim 1 wherein said negative tribocharging material comprises polyamide resin blends.

- 8. The apparatus of claim 1 wherein said negative tribocharging material comprises aminoplastic resins.
- 9. The apparatus of claim 1 wherein said negative tribocharging material comprises fiber reinforced polyamides.
- The apparatus of claim 1 wherein said negative tribocharging material comprises an acetal copolymer.